

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of

Atty Dkt. 249-244
C# M#

TOMIHARA et al

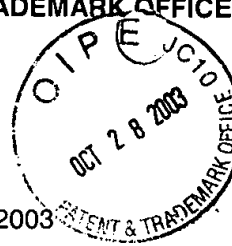
Group Art Unit: 1745

Serial No: 10/022,284

Examiner: Yuan

Filed: December 20, 2001

Date: October 28, 2003

Title: CADMIUM NEGATIVE ELECTRODE FOR ALKALINE STORAGE BATTERY AND
METHOD FOR PRODUCING THE SAMECommissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-14501745
RECEIVED
OCT 31 2003
TC 1700

Sir:

RESPONSE/AMENDMENT/LETTER

This is a response/amendment/letter in the above-identified application and includes an attachment which is hereby incorporated by reference and the signature below serves as the signature to the attachment in the absence of any other signature thereon.

☒ **Correspondence Address Indication Form Attached.****Fees are attached as calculated below:**

Total effective claims after amendment	8	minus highest number		
previously paid for	20	(at least 20) =	0 x \$	18.00
				\$ 0.00

Independent claims after amendment	2	minus highest number		
previously paid for	3	(at least 3) =	0 x \$	86.00
				\$ 0.00

If proper multiple dependent claims now added for first time, add \$290.00 (ignore improper)	\$	0.00
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Petition is hereby made to extend the current due date so as to cover the filing date of this paper and attachment(s) (\$110.00/1 month; \$420.00/2 months; \$950.00/3 months)	\$	0.00
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Terminal disclaimer enclosed, add \$ 110.00	\$	0.00
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<input type="checkbox"/> First/second submission after Final Rejection pursuant to 37 CFR 1.129(a) (\$770.00)	\$	0.00
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☐ Please enter the previously unentered, filed☐ Submission attached**Subtotal \$ 0.00**

If "small entity," then enter half (1/2) of subtotal and subtract	-\$	0.00
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☐ Applicant claims "small entity" status. ☐ Statement filed herewith

Rule 56 Information Disclosure Statement Filing Fee (\$180.00)	\$	180.00
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Assignment Recording Fee (\$40.00)	\$	0.00
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Other: Information Disclosure Statement; Concise Explanation of Relevance Under MPEP §609A(3)		0.00
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TOTAL FEE ENCLOSED \$ 180.00

The Commissioner is hereby authorized to charge any deficiency, or credit any overpayment, in the fee(s) filed, or asserted to be filed, or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Account No. 14-1140. A duplicate copy of this sheet is attached.

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In re Patent Application of

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For: CADMIUM NEGATIVE ELECTRODE FOR ALKALINE STORAGE
BATTERY AND METHOD FOR PRODUCING THE SAME

CONCISE EXPLANATION OF RELEVANCE UNDER MPEP §609A(3)

The subject application as originally filed refers to the content of 61-158666 in lines 13 to 25 at page 3 of the specification. To further supplement in detail, the claim of 61-158666 sets forth "A cadmium pole plate for alkaline battery, characterized by forming a high polymer film on a surface of active material to hinder diffusion of hydroxided ion". The example describes "As the pole plate A of the invention, the known sintered type cadmium pole plate is impregnated under pressure reduction with a water solution dissolved with 10 wt parts of polyvinyl alcohol in 90 wt parts of water ... to form the film of polyvinyl alcohol on the surface of the active material. As the pole plate B of the invention, the film of polyvinyl alcohol is formed on the surface of active material of the known paste type cadmium pole plate through the same treatment as in the pole plate A. As the pole plate C of the invention, the known sintered type cadmium pole plate is impregnated under pressure reduction with a water solution dissolved with 2 wt parts of methyl cellulose in 98 wt parts of water... to form the film of methyl cellulose on the surface of the active material." (emphasis added)

The subject application as originally filed also refers to the content of 61-158664 in lines 13 to 25 at page 3 of the specification. To further supplement in detail, the claim of 61-158664 states "A cadmium pole plate for alkaline battery, characterized by forming a high polymer film on a surface of pole plate to hinder

diffusion of hydroxided ion". The example describes "As the pole plate A of the invention, the known sintered type cadmium pole plate is coated on the surface with a water solution dissolved with 10 wt parts of polyvinyl alcohol in 90 wt parts of water, and dried to form the film of polyvinyl alcohol on the surface of the pole plate. As the pole plate B of the invention, the film of polyvinyl alcohol is formed on the surface of the known paste type cadmium pole plate through the same treatment as in the pole plate A. As the pole plate C of the invention, the known sintered type cadmium pole plate is coated on the surface with a water solution dissolved with 2 wt parts of methyl cellulose in 98 wt parts of water, and dried to form the film of methyl cellulose on the surface of the pole plate."

JP 61-158663 is also discussed in applicants' specification at line 25 at page 4 to line 10 at page 5. To further supplement in detail, the claim of 61-158663 sets forth "A cadmium pole plate for alkaline battery, characterized by adding polysaccharide or derivative thereof inside of nickel sintered substrate filled with cadmium active material". The example describes "The pole plate was made by filling cadmium hydroxide of a desired amount within the substrate, and then ... the pole plate was immersed in a water solution of methyl cellulose." In addition, it is described at the right upper column at page 3 that "in the example, methyl cellulose was employed as polysaccharide or derivative thereof, and no limitation is made thereto, but it is sufficient to use starch, pectin, carboxyl methyl cellulose, hydroxyl propyl cellulose."